

**NIST**National Institute of  
Standards and Technology

National Physical Laboratory

**INTERNATIONAL BIOMETRIC  
PERFORMANCE CONFERENCE**

Evaluation and Performance of Biometric Technologies

May 3-5, 2016  
Call for PapersEuropean  
Association for  
Biometrics  
**eab**  
Human Identity in Europe

NIST, NPL and the European Association for Biometrics invite talks for the IBPC conference on performance and testing of biometric systems. The forum will bring together evaluators, users, and technology providers to discuss performance in applications that embed biometric functions or component. The conference is focused on quantitative, applied biometrics, aiming to elicit information that guides policy, design, planning, and implementation of high performance biometric systems, particularly how systems are tested, certified, upgraded and improved. The conference specifically invites talks on border control, including ABC, and human involvement, Entry-Exit, and overall security. The conference aims to expand the use of biometrics by targeting operationally relevant themes, including design, procurement, and measurement.

**Topic area I: Test design and analysis**

Design of experiments, efficient testing, sequential testing  
Beyond the DET: Novel tests and performance metrics  
Statistical methods for efficiency, for prediction  
Individual specific analysis, mixed effects  
Longitudinal analysis, Effects of age and ageing.  
Biometrics in infants, children, elderly  
Face recognition in video: multiple persons, cameras, non-cooperation  
Desirable, undesirable algorithm properties – 1:1, 1:N and forensics  
Identification systems: metrics, limits, scalability, relation to 1:1  
Desirable, undesirable sample properties, and quality estimation  
Product vs. component tests, certification, interoperability  
Performance of sensors and capture devices  
Testing and standardization gaps; testing in academia  
Usability and accessibility testing for biometrics

**Topic area II: Operational aspects: Border Control**

Recent concepts of operations, Entry and Exit  
Recent test results  
Expedited biometrics, expedited border control  
Biometrics with non-habituated populations  
Expedited traveler programs  
Air, sea, land borders: Where are the bottlenecks  
e-Passport solutions: When is it viable, needed and cost effective  
Human performance: Checking identity after automated 1:1 or 1:N  
Role of simulation  
Security, attacks, tests, red teams

**Topics area III: Mobile and remote authentication**

Biometrics in security context: Spoofing, deterrence, risks, priors, costs, fallbacks, evaluation of multifactor authentication  
Resilience under active attacks (vulnerability, spoofing)  
Feasibility of common criteria testing of biometric components  
Privacy enhancing technology, de-identification  
Remote authentication: Challenges, assurance, testing  
Retrospectives, lessons learned, long term perspective, critical appraisal of other programs, events, specifications.

**Organizers:**

Patrick Grother, Elham Tabassi, NIST  
Tony Mansfield, National Physical Laboratory (NPL)  
Christoph Busch, European Assoc. for Biometrics (EAB)

**Intended speakers:**

Research and development staff, system analysts, users, evaluators, planners, writers of technical specifications, standards developers and adopters.

**Target audience:**

Professionals concerned with biometric systems evaluation, procurement, deployment, maintenance, design, configuration, integration, standardization, research and development.

**Important dates:**

Feb 08 2016	Submission of abstract < 1 page
Feb 15 2016	Notification of acceptance
Apr 20 2016	Online registration closes
Apr 27 2016	Submission of slides + papers
May 03 2016 May 05 2016	<b>IBPC 2016 Conference</b>
May 5-6 2016	<b>Workshop: "Quantifying the weight of forensic evidence"</b>
May 5, 2016	<b>Seminar: "Non-cooperative face recognition inc. video surveillance"</b>

**Logistics:**

When: May 3-5, 2016  
Where: Red Auditorium (cap. 400)  
NIST Gaithersburg, MD, USA  
Internet: Wireless  
Hotel: Gaithersburg area hotels, TBA  
Fee: \$US 165 (estimate) via registration

**Contact the organizers:**

Email: [ibpc2016](mailto:ibpc2016@nist.gov) AT [nist](mailto:nist@nist.gov) DOT [gov](mailto:gov)

**Homeland  
Security**

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